

OBERLIN SMITH,  
PRESIDENT & MECH. ENG.  
FRED. F. SMITH,  
SECRETARY & TREASURER.  
CHAS. D. REEVE,  
SUPERINTENDENT.

# FERRACUTE MACHINE COMPANY

## PRESSES, DIES AND SHEET METAL TOOLS.

Light Machinery improved, cheapened and manufactured on the Duplicate System.

Established 1863.

Incorporated 1877.

Bridgeton, New Jersey, U.S.A. March 31st, 1891

CABLE ADDRESS "FERRACUTE, BRIDGETON" TELEPHONE CALL, "No. 24"

Answering Yours of.....

Col. O. C. Bosbyshell,  
U. S. Mint, Phila.

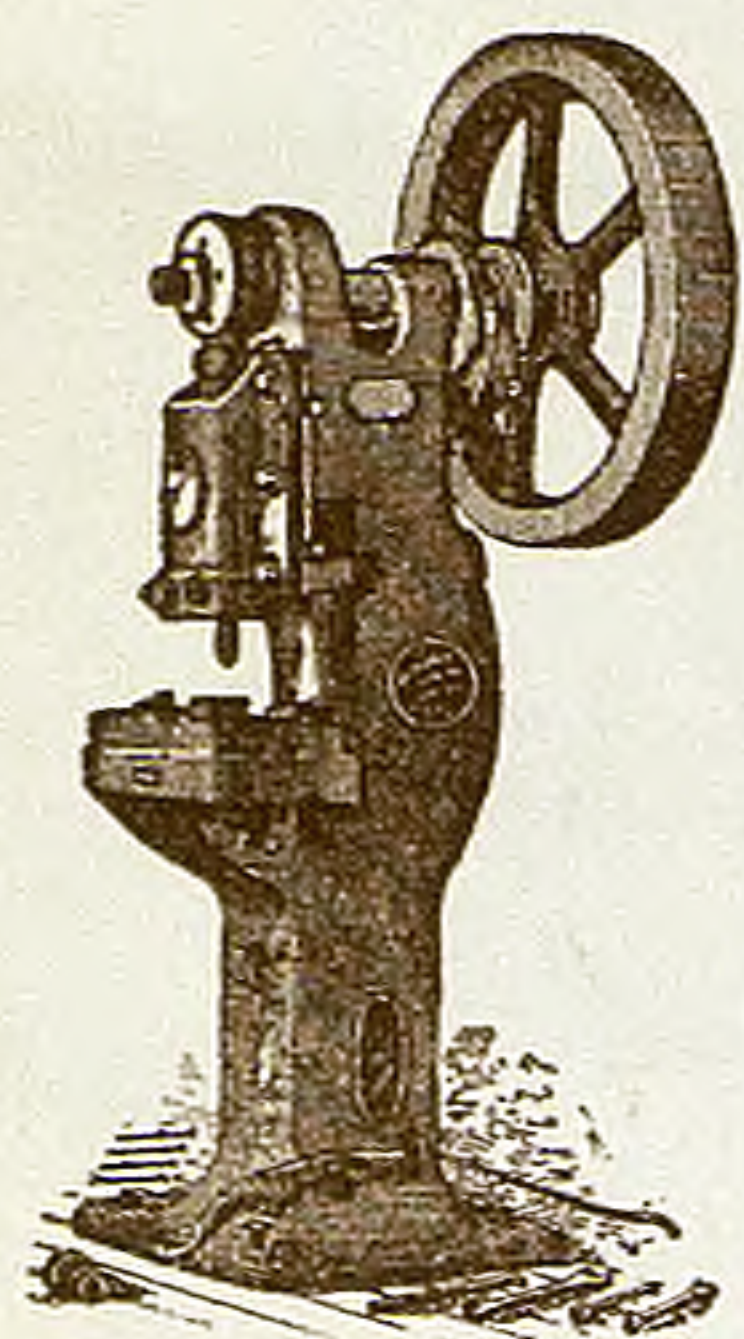
Dear Sir:-

In accordance with the arrangement made with our Secretary when he last called on you we enclose, on Fig. 2, a sketch, in vertical section through a b, Fig. 1, of the proposed coining press which he explained to you, and which is shown in perspective on sketch, Fig. I, also enclosed. Of course this is not drawn to scale, and is not entirely complete, as it is impossible to design a machine of this kind in every detail without spending a great many days time upon it and making a complete set of large scale drawings, all of which is quite expensive.

Our reason for asking you to go by our specifications (in which we tried to clearly define conditions and results) rather than by a drawing was not from any indisposition to explain everything definitely, but from the fact intimated above that it is very hard to get everything definitely arranged except by perfected scale drawings. In making these, we might of course find that in some place a lever of the second order was better than a lever of the first, or that there was not room on one side for some cam or slide that must therefore be transferred to the other, or something of this kind which would make the finished machine different from these preliminary sketches. In general, however, our ideas are shown in Figs. 1 and 2, as near as they can "materialize" now.

The general idea is to get a machine with, 1st: Rolling toggles TT, with all of their bearing surfaces very wide and of hardened steel, connected by cogs at the sides simply to keep them in place, these cogs however taking none of the working pressure. 2nd: With these toggles, as also the shaft S; pitman P; cam C; rollers R, R; slide S; plunger P; feeder F; and all other working parts beneath the table T, so as to prevent oil-dripping and lost motion. 3rd: To get very short motions so as to avoid wear (less than 1/8" in plunger, 1/8" in slide, 1" in feeder etc.) so that the machine will run very quietly, smoothly and durably; also at a high speed if desired—this object also being aided by having wheel W down near the floor. 4th: To get a much greater simplicity of parts (as well as motion), both in their form and quantity, so as to enable the machine to be built for much less than heretofore, and cost less for repairs.





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Bridgeton, New Jersey, U.S.A. 189

CABLE ADDRESS "FERRACUTE, BRIDGETON" TELEPHONE CALL, "No. 24"

Answering Yours of .....

Mint 2

We have shown a trough or chute (for delivering the coin) T<sup>u</sup>, curled around upon itself so as to come forward and deliver into a box supposed to be set upon a bracket at the front of the press about at the point B, so that the operator could see (and catch in her hand) each coin as it came out. If however this arrangement is not satisfactory we would make it to deliver about the same as your press does.

We have not shown the tube T<sup>u</sup> as spliced, so that the top of it would not move, but would make it so if it proves desirable. We think however a slight motion up and down, of less than 1/8", would be favorable rather than otherwise to feeding, as it would help the coins to settle down better than with a stationary tube.

Hoping that if you wish further explanations you will freely ask us for them, referring by pencilled reference letters to these sketches, and return them to us, we are

Yours truly,

Ferracute Machine Co.,

Per

2 enclosures

*Oberlin Smith*  
Pres

P.S. The writer, since he saw you, has been studying the "rolling" problem, conferring with Connecticut brass people. He thinks there is yet a way (although they've not found it and up there in Conn.) to get your strips so uniform in thickness as to fall within the weight limit.

*F. M. Co.*



Red Man. 31. 1891 }  
Answered Apr. 8 " }



Ferracute Machine Company  
Presses, Dies and other Sheet Metal Tools.  
Bridgeton, New Jersey, U.S.A.  
March 31, 1891

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F.M. Co.

[Noted on back:]

Res. Mar. 31. 1891.

Answered Apr. 8 "